1938

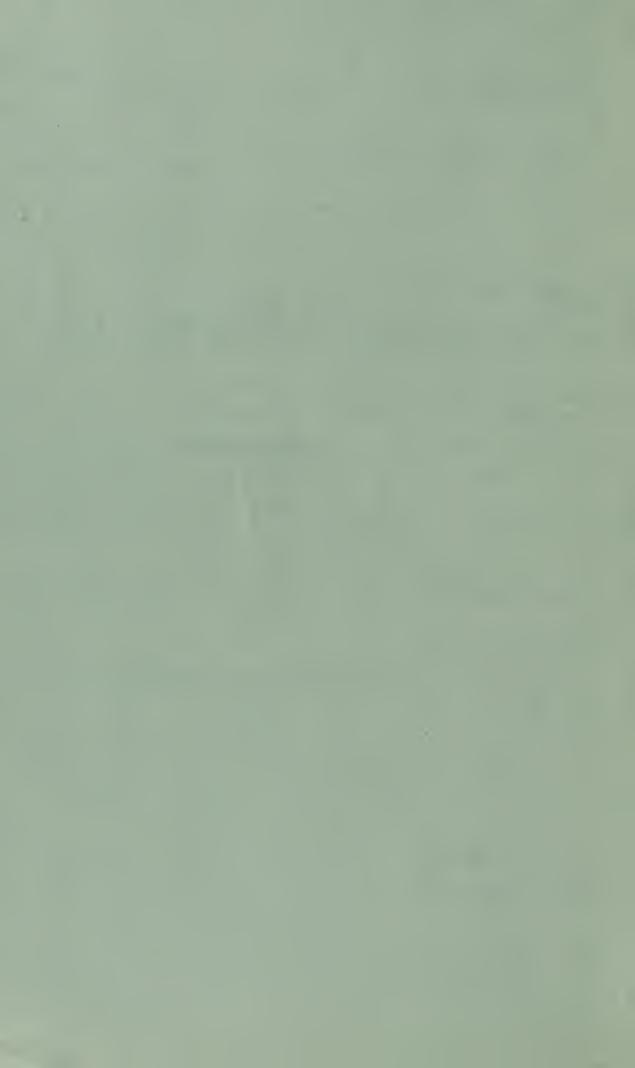


BRISTOL PORT HEALTH AUTHORITY

ANNUAL REPORT

OF THE

PORT MEDICAL OFFICER
OF HEALTH





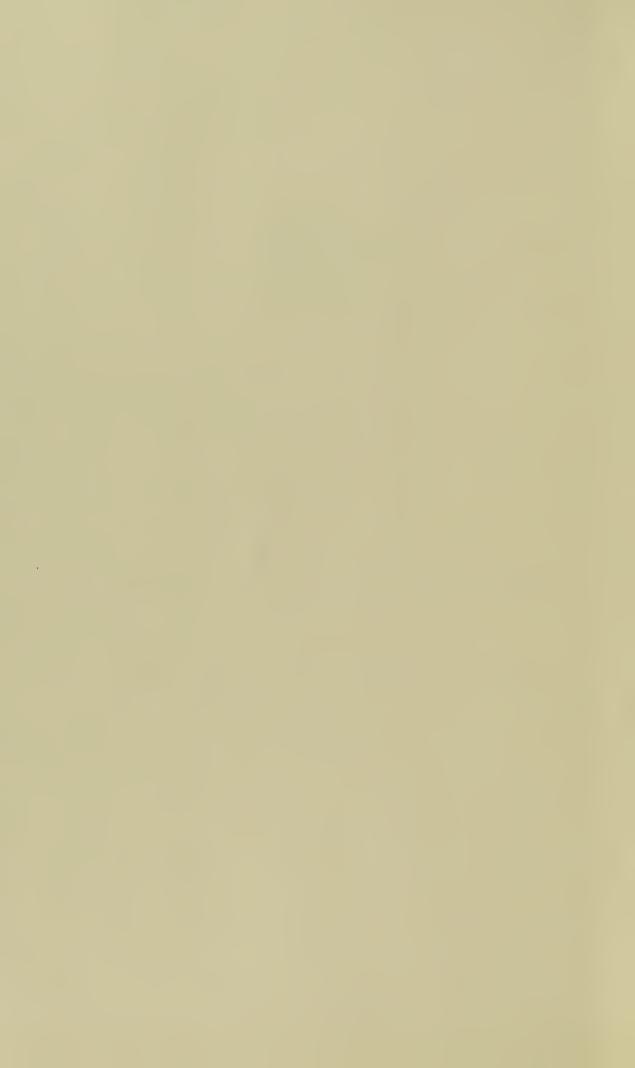
BRISTOL PORT HEALTH AUTHORITY

ANNUAL REPORT

OF THE

PORT MEDICAL OFFICER OF HEALTH

R. H. PARRY, M.D., M.R.C.P. (Lond.), D.P.H.



BRISTOL PORT HEALTH COMMITTEE.

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PORT HEALTH STAFF.

*Port Medical Officer of Health

R. H. PARRY, M.D., M.R.C.P. (Lond.)., D.P.H.

*Deputy Port Medical Officer of Health

I. G. DAVIES, M.B., M.R.C.P. (Lond.)., D.P.H.

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Inspectors

*Chief Inspector, J. A. Robinson, 1.2.

T. E. Howick, 1.2.4.

C. W. Gould, 1.2.3.

I. E. DAVIES, 1.2.3.

Assistant Port Officers

C. W. BASTON

W. T. Bowen, 3.

Rat Catchers

*C. H. RYMAN

*C. Scorrer

*F. Peacock

E. R. Poole

- 1. Certificated Sanitary Inspector.
- 2. Certificated Meat and Food Inspector.
- 3. Master Mariners' Certificate.
- 4. Liverpool University Cert. San. Science.

* Also engaged in the city.

INSPECTION OF ALIENS.

Supervising Medical Inspector, R. H. PARRY.

Medical Inspectors

I. G. DAVIES

R. J. I. Bell

F. W. Bunting

D. T. RICHARDS

J. G. HAILWOOD

A. M. FRASER

CONTENTS, 1938

				PAGE
IN	TRODUCTION	•••	•••	5
1.	Amount of Shipping entering the	Рокт		8
2.	CHARACTER AND TRADE OF PORT	•••	•••	8
3.	Water Supply			10
4.	PORT SANITARY REGULATIONS, 1933	•••		10
5.	Measures against Rodents	•••		14
6.	Hygiene of Crews' Spaces	•••	•••	17
7.	FOOD INSPECTION	•••	•••	17
8.	MISCELLANY			23

BRISTOL PORT HEALTH AUTHORITY.

ANNUAL REPORT, 1938.

My LORD MAYOR, LADIES AND GENTLEMEN,

I have the honour to present to you a report upon the work of the port health authority during 1938.

During the year under review the port remained free of dangerous infectious disease. No case of such disease was found on any vessel entering the Port of Bristol.

All vessels from foreign ports and particularly from "infected" ports, were visited and investigated on arrival regarding their state of health. In addition they were kept under observation during their stay in port.

All foreign going vessels were examined respecting their sanitary condition and special attention was paid throughout the year to the question of hygiene of crews' quarters.

There has been a steady volume of work in connection with imported food. This is skilled work needing judgment and care.

During the year 1,166 ships arrived at Bristol ports from "foreign" and 7,404 from coastwise, making a total from "foreign" and coastwise of 8,570. Of these ships, 42 were from ports known to have been infected by plague. Your medical officers visited 221 ships altogether and in nearly all these examined the crews. The port sanitary inspectors boarded 2,372 ships.

The number of cases of sickness landed or requiring medical attention at the port was 59 (57 in respect of "foreign" vessels and two from "coastwise" ships), in addition 37 cases of infectious and other sickness were reported to have occurred on vessels during the voyage, but had been disposed of prior to arrival.

There was no case or suspected case of yellow fever, smallpox or typhus on board these vessels. Eleven persons were removed from ships to the isolation hospital for observation or treatment, and three to Southmead Hospital for treatment of other than infectious diseases.

The medical inspectors of aliens inspected 124 aliens and subjected fifteen of these to detailed examination. No certificates of physical incapacitation were issued during the year.

The detection of rodent plague is one of the most important duties of the port health authority. All ships from infected or suspicious ports were examined thoroughly for rat indications and wherever possible samples of rats were obtained for pathological examination for plague. In all 263 rats from ships were examined during the year. For the purpose of sampling the rat population in the vicinity of the quays, 708 rats were examined pathologically giving a total of 971 examined during the year.

During the year additional duties were placed upon the port health authority by the Public Health (Aircraft) Regulations which came into force on 1st July, 1938. For the purpose of these regulations the airport is included in the arrangements already made for the sea ports in so far as they are applicable to aircraft.

The efficient carrying out of the work of the port needs close co-operation between medical officers, food inspectors, hospitals and laboratories. This is achieved by the close coordination of the port health department, Ham Green and Southmead hospitals, the school medical service and the preventive medicine laboratories of the University of Bristol. For the purposes of the port health authorities these departments work as one organisation.

In addition the port health department is closely linked with H.M. Customs and Immigration officers, the officers of the Port of Bristol Authority, the haven master and pilot and the surveyors' department of the Board of Trade.

To all these officers I give my best thanks for their ready and courteous assistance during the year. Finally, I desire to bring to your notice the excellent service given to the Port Health Authority by all the officers of the department under the supervision of my deputy, Dr. I. G. Davies.

I am, my Lord Mayor, Ladies and Gentlemen,

Your obedient servant,

R. H. PARRY,

Port Medical Officer of Health.

REPORT ON THE WORK OF THE PORT HEALTH AUTHORITY.

BY

I. G. DAVIES, M.B., M.R.C.P. (Lond.), D.P.H., Deputy Medical Officer of Health.

As in previous years this Report is prepared on the lines indicated in a memorandum issued by the Ministry of Health to Port Health Authorities (Memorandum 204/S.A.).

Certain permanent arrangements which have been fully described in previous reports have not been repeated in this report.

The port of Bristol comprises the Avonmouth docks, the City docks, and the Portishead docks, which have a total water area of 188 acres, and a dock quayage of 37,220 feet. The Corporation of Bristol are the owners of the entire dock system, the administration of which is vested in a committee, the Port of Bristol Authority.

During the year the existing arrangements for the port regarding medical inspection, sanitary inspection and disinfestation were extended so as to include the Bristol Airport, in accordance with the Public Health (Aircraft) Regulations 1938 which came into force on 1st July, 1938.

While at present the "foreign" traffic at the airport is not sufficient to make any additional call upon the port health department, it is evident that future development of air routes and traffic will considerably intensify the problem of keeping this country free of dangerous infectious disease, since the time elapsing between departure from a foreign country and arrival here may fall within the incubation period of a dangerous infectious disease.

Special attention has been paid throughout the year to the hygiene of crews' spaces and to certain matters concerning imported food, in particular the copper content of tomatoes. These matters are referred to later in the report.

For some of the figures used in the compilation of the tables in this report I am indebted to the officers of the Port of Bristol Authority and H.M. Customs and Immigration Officer. To these and to the Haven Master and Pilots and to the surveyor's department of the Board of Trade the grateful thanks of the department are due for their courtesy and willing cooperation throughout the year.

I.—Amount of Shipping entering the Port during the year 1938.

(Avonmouth, Portishead and City Docks)

Table A.

	Num- ber	Tonnage	By the medical officer of health	By the sanitary in-	Number reported to be defec- tive	Number ofvessels on which defects were remedied	Number of vessels reported as having or having had during the voyage infectious disease on board
Foreign Steamers } Foreign Sailing Fishing Total Foreign	1,166 — — 1,166	3,036,614	201 20 — — 221	1,023 143 — — — 1,166	217 8 - - 225	217 8 — — — — 225	24 — — — — 24
Coast- Steamers Sailing Fishing	7,404	970,669		668 538 —	102	102	1 - -
Total Coastwise	7,404	970,669		1,206	102	102	1
Total foreign and coastwise	8,570	4,007,283	221	2,372	327	327	25**

- † Includes mechanically propelled vessels other than steamers.
- * Figures supplied by Port Authority. The foreign tonnage includes vessels entering from a coastwise port to load for a foreign port.
- ** Excluding vessels having venereal disease on board.

II.—Character of Trade of Port.

Table B.

(a) Passenger Traffic during 1938.

No. of passengers		lst Class	2nd Class	3rd Class	Trans- migrants	Total
	Aliens	166	_		_	166
Inwards {	British	2,680				2,680
Outwards {	Aliens	73 2,069	_		_	73 2,069
(British		2,009				2,009

The foreign ports from which passengers principally arrived were:—
Kingston (Jamaica), Trinidad, U.S.A., Canadian, Indian and Scandinavian ports.

(b) Cargo Traffic.

PRINCIPAL IMPORTS

	Comr	nodities	•				
Grain	•••	•••		•••	Tons		946,901
Oilseeds		···			,,	_	76,775
Feeding stuffs	for anir	nals			,,	_	202,963
Cereal product	s for hu	man co	nsui	mption	,,	-	24,498
Fruit:							
Bananas	• • •			Bunch	es	6,101,983	Tons 80,519
Oranges a	and lem	ons		Cases		207,080	,, 8,251
Other gre	en fruit				Tons	_	7,276
Canned	• • •	• • •		•••	"	_	8,206
Dried	•••		• • •		,,	_	5,719
Metals and or	es:						1
Brass	•••	•••	• • •	·	**	m —	157
Copper	•••	•••	• • •	•••	,,	_	26,452
Iron	•••	•••	• • •	• • •	,,		16,079
Lead	•••	•••	• • •	•••	,,	<u> </u>	3,699
Spelter	•••	• • •	• • •	•••	**		1,680
Zinc conc	entrates	• • • •	• • •	•••	"	_	111,194
Paper	•••	• • •	• • •	•••	**		45,158
Petroleum	•••	• • •	• • •	• • •	,,	_	899.980
Provisions :							1047
Bacon	•••	•••	• • •	•••	**	_	1,041
Butter	•••	•••	• • •	•••	,,	_	12,633
Cheese	•••	• • •	• • •	•••	"	_	10,158
Lard		•••	•••	•••	"	_	2,973
Frozen m	eat	•••	• • •	•••	"	_	14,891
Sugar : Refined							4.070
Unrefined	•••	•••	•••	•••	"		4,873
Glucose		•••	•••	•••	,,		6,113
Molasses	•••	•••	•••	•••	,,		1,355
cm t	•••	•••	•••	•••	,,		27,371
****	•••	•••	•••	Dinos	,,	7,210	44,628 Tons 4,226
	•••	•••	•••	Pipes Dozens	· · · ·		Tons 4,326
Spirits	•••	•••	•••	Pipes		4,006 141	,, 100
•	•••	•••	•••	Dozens	•••	42,961	,, 85
Wood and tim	hor	•••	•••			42,901	,, 859 112,842
Wood pulp		•••	•••		Tons		112,842 $127,736$
All other good	 Ic	•••	•••	•••	**		
An other good				•••	,,		168,910
	Total l	Foreign	Im	ports	,,	•••	3,006,401

The Port of Bristol receives ten per cent. of the United Kingdom imports of grain and of petroleum and more than twenty-five per cent. of the tobacco and banana imports.

PRINCIPAL EXPORTS

	Co		Tons				
Chemicals Salte	cake		•••				4.600
	er kind		•••	•••	• • •	•••	4,197
Clay Coke	•••	•••	•••	•••	•••	•••	$2,735 \\ 1,609$
Earths	•••	•••					1,198
lron							915
Paper	• • •			• • •			128
Strontia	• • •	•••					1,595
All other	goods	•••	•••	•••	•••	•••	20,687
	Total Foreign Exports						37,664

(c) Foreign ports from which vessels arrive.

The port of Bristol trades with all parts of the world and the list printed in 1934 is typical of the foreign ports from which vessels arrive in any year.

III.—Water Supply.

(1) Source of supply for (a) the port, (b) shipping.

The water used in the port and by ships in the docks is supplied by the Bristol Water Works Company. Hydrants are provided on the quaysides.

Samples of ships' water are taken from time to time. Two samples were taken during 1938. Twenty-three water tanks were required by the port inspectors to be cleansed.

(2) Hydrants and hosepipes.

As a precaution against contamination, water is allowed to run free for a few minutes before it is permitted to enter ships' storage tanks. The hosepipes are also periodically examined and cleansed by the water works staff.

(3) No. of water boats and their sanitary condition.

There are no water boats in use at Avonmouth or Portishead.

One water boat is in use at Bristol docks. This vessel is inspected periodically by the port sanitary inspector, and is cleansed and cement washed when necessary.

IV.—Port Sanitary Regulations, 1933.

- (1) Arrangements for dealing with declarations of health.
- (2) Boarding of vessels on arrival.
- (3) Notification to the authority of inward vessels requiring special attention.

The above headings were dealt with in detail in the annual report for 1933. These arrangements, together with the arrangements made under article 6 of the Port Sanitary Regulations requiring notification by wireless message of any unusual circumstances on board by the master before arrival at the port, have all worked satisfactorily throughout the year under review. The latter arrangements, concerning the sending of wireless messages, were given in the report for 1934.

(4) Mooring Stations.

These remain as detailed in my report for 1933.

(5) Particulars of any standing exemptions from the provisions of article 14.

At this port every ship from foreign is met at the lock gates by a port sanitary inspector. The medical officer on duty has already been notified of the expected arrival of the ship and of the necessity for medical inspection. In every case therefore he is awaiting the arrival of the ship and in this way no delay is caused either to the ship or to its personnel.

No standing exemptions under article 14 (1) have been issued.

- (6) Experience of working of article 16.
- (7) What, if any, arrangements have been made for :—
 - (a) Premises and waiting rooms for medical examinations.
 - (b) Cleansing and disinfection of ships, persons and clothing and other articles.
 - (c) Premises for the temporary accommodation of persons for whom such accommodation is required for the purposes of the regulations.
 - (d) Hospital accommodation available for plague, cholera, yellow fever, smallpox, and other infectious diseases.
 - (e) Ambulance transport.
 - (f) Supervision of contacts.

These matters were fully dealt with in the report for 1933.

(8) and (9) Arrangements for (a) bacteriological or pathological examination of rats for plague and (b) for other similar examinations.

During the year increased attention was paid to the sampling of the rat population of the quaysides for rodent plagues.

All bacteriological and pathological examinations in this connection together with the laboratory investigation of all imported food stuffs, are carried out at the preventive medicine laboratories of the University of Bristol.

During the year under review, 701 rats were caught on ships and 4,748 rats and 340 mice were recovered from sheds and quays at the docks.

Of these, 981 were examined for plague, 263 from ships at the ports and 708 from sheds and quays at the docks.

(10) Arrangements for the diagnosis and treatment of venereal disease amongst sailors under international arrangements.

Inquiry is always made of the responsible officers on all ships concerning the possibility of venereal disease amongst the crew and full directions are given to the crew as to the means of obtaining treatment.

The following particulars relate to seamen treated at the municipal clinic during the year:—

1937		1938	Syph.	Soft Sore	Gon.	Non-Ven.
209 169	Cases Total New cases	184 161	71 55	4 4	65 59	44 43
756 424	ATTENDANCES Total New cases	625 525	199 114	16 16	299 285	111 110
5 4	INPATIENTS Total New cases	8 7	4 3	1 1	3 3	=
148 112	INPATIENT DAYS— Total New cases	184 149	72 37	54 54	58 58	=

 $Table \ C.$ Cases of infectious sickness landed* from vessels.

Disease	No. of during		No. of	Average no. of cases for previous 5 years	
Disease	Passen- gers	Crew	concerned		
Infectious diseases, including: Typhoid Measles Dysentery Pulmonary tuberculosis Malaria Pneumonia Venereal disease	1	1 5 -1 2 4 8	1 3 1 1 2 4 8	0·2 0·2 0·2 4·6 4·8 1·4 24·4	

Other diseases not included in Table C above landed* from vessels.

Disease	of cases No. of Of cases for Vessels Previous
Pass	sen- concerned 5 years
Rheumatism — Diseases of nervous system — Diseases of respiratory system — Diseases of digestive system —	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Diseases of skin and cellular system Diseases of bones and organs of locomotion — Traumatism — Ill-defined	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

^{*} Includes only cases requiring medical attention, but all were not removed from ships to hospital.

 $Table\ D.$ Cases of infectious sickness on vessels during voyage but disposed of prior to arrival.

Disease	No. of cases during 1938 Passengers Crev	No. of vessels concerned	Average no. of cases during previous 5 years
Infectious diseases, including: Typhoid Measles Influenza Malaria Dysentery Other infectious diseases (mumps) Venereal disease	- 1 1 5 - 1 1 3 - 2 1 1 - 1	1 2 1 4 2 2 2	0·6 0·0 4·0 4·0 3·8 2 0 2·2

Other diseases not included in Table D above on vessels during voyage but disposed of prior to arrival.

Disease	No. of during		No. of vessels	Average no. of cases during	
	Passen- gers	Crew	concerned	previous 5 years	
Diseases of circulatory system ,, ,, respiratory system ,, ,, digestive system ,, ,, bones and organs or locomotion Traumatism		2 1 6 1 1 8	3 1 5 1 1 8	2·0 2·6 4·6 0·0 2·2 6·0	

V.—Measures against Rodents.

- (1) Steps taken for detection of rodent plague (a) in ships in the port, (b) on quays, wharves, warehouses, etc.
- (2) Measures taken to prevent the passage of rats between ships and the shore.
- (3) Methods of deratisation of (a) ships, (b) premises in the vieinity of the docks and quays.

Such steps were given in detail in the reports for 1933 and 1934.

- (4) Measures taken for the detection of rat prevalence in ships and on shore.
- (5) Rat-proofing.

These matters continue as detailed in previous reports, particularly those for 1933 and 1934.

Nineteen deratisation and 91 deratisation exemption certificates were issued during the year 1938. Deratisation was carried out as follows:—

- 10 vessels by sulphur.
 - 9 vessels by cyanide.

If there is any evidence of considerable infestation deratisation by trapping is not undertaken as it is considered that it cannot be efficiently carried out with certainty.

Five hundred and twenty four rats were recovered from these vessels.

The following table deals with the certificates of deratisation and exemption issued during the last five years.

		1			
Year	1934	1935	1936	1937	1938
Ships fumigated	29	19	19	16	19
Rats found on these ships:	739	623	306	293	524
Average number of rats per ship But it is relevant to note the greatest number of rats on a	25.5	32.8	16.1	18.3	27.5
single ship was	234	167	84	99	95
Number of exemption certificates issued	117	126	127	115	91
Rats found on these ships by trapping previous to issuing exemption certificates	19	7	10	3	

RATS DESTROYED IN 1938.

Table E. (1) On Vessels.

Total in Year	701				263	
Dec.	9		1		ಬ	1
Nov.	32		1		30	
Oct.	25		١		57	
Aug. Sept.	79	1	I		31	l
	75				47	
July	106				14	1
June	68	1	1	1	30	l
May	104		1		11	
April	7			1	17	
Mar.	61	1			∞	1
Jan. Feb. Mar.	99		1		28	1
Jan.	51	I	1	1	18	
Number of Rats	Black	Brown	[Mice	Species not recorded	Examined	Infected with plague

Table F. (2) In docks, quays, wharves and warehouses.

Number of Rats	Jan.	Feb. Mar.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in Year
Black	53	53	50	49	77	37	41	65	09	51	55	47	638
Brown	338	303	313	235	339	292	397	376	308	292	468	449	4,110
[Mice	33	39	23	18	22	26	30	17	33	40	33	26	340
Species not recorded	1		l	ı		1		1	1		1	1	ı
Examined	53	67	61	42	85	52	99	99	09	57	57	42	208
Infected with plague	1			1	1	1	ı	I	1			1	I
						-1				_			

Measures of rat destruction on plague "infected" or "suspected" vessels or vessels from plague infected ports arriving in the year.

Number of such vessels on which measures of rat destruction were not carried out	s.	*9
Number of rats killed.	7.	I
Number of such vessels on which trapping, poisoning, etc., were employed.	в.	35
Number of rats killed.	5.	
Number of such vessels fumigated by HCN.	4.	I
Number of rats killed.	3.	95
Number of such vessels fumigated by SO ₂	. 2	
Total number of such vessels arriving.	1.	45

* These ships were all examined for rat indications, but no measures were taken, either because there was no evidence of rats, or because of very short stay in port.

Deratisation certificates and deratisation exemption certificates issued during the year. Table H.

	Total	issued.	.6	10	19	35	49		110
No of derotication	exemption	issued.	×.	10	19	23	39	[91
J.		Total.	7.		ı	6	10	1	19
ificates issued	After	poisoning, etc.	6.			1	_	_	
No. of deratisation certificates issued.	ion with	H.C.N. and Sulphur.	ŭ.		-	1	-	-	1
No. of de	After fumigation with	H.C.N. Sulphur	4		-	∞	2		10
	After	H.C.N.	က်		ı	1	œ		6
	No. of	smps.	લં	10	19	32	49	1	110
	Net Tonnage	10t 10mage.	1.	Ships up to 300 tons	", from 301 tons to 1,000 tons	" from 1,001 " 3,000 "	" from 3,001 " 10,000 "	" over 10,000 "	TOTALS

VI.—Hygiene of crews' spaces.

Table J.—Classification of nuisances.

Nationality of vessel.	Number inspected during the year.	Defects of original construction.	Structural defects through wear and tear	Dirt, vermin and other conditions prejudicial to health.
British	1,811	10	97	279
Other nations	561		18	61
Totals	2,372	10	115	340

The arrangements for the reciprocal reporting of defects in crews' quarters, made with the surveyors' department of the Board of Trade, are now well established as a part of the normal routine.

There is a marked improvement in the accommodation provided which naturally is seen first in ships of recent construction. The accommodation of a number of old vessels has been altered where it has been found practicable to do so. This will no doubt extend to other ships as the times for survey and repair become due.

A number of ships have been found to be infested with vermin. Advice and assistance have been given in each case. The eradication of vermin especially bugs is particularly difficult as one of the chief sources of infestation is due to the crew carrying infested clothing from ship to ship and frequently from bug infested boarding houses ashore.

VII.—Food Inspection.

Public Health (Imported Food) Regulations, 1925.
 Public Health (Imported Food) Amendment Regulations, 1933.
 Resort to legal proceedings was not necessary during the year.
 Quantity of food imported and dealt with:—

Fresh, frozen or canned Frozen beef	ĺ			94.094	0.50
	lamak	•••	•••	24,984	
,, mutton and	lamb	•••	•••		carcases.
,, pork	•••	•••	•••	20,451	, ,
" pork sides	•••	•••	• • •	14,726	
,, pork legs	•••	•••	•••	1,161	
,, sundries	•••	•••	•••	14,214	packages.
Bacon and hams	• • •	•••	• • •	1,040	tons
Canned meat	• • •	•••	•••	672	**
Canned fish	• • •	•••	•••	785	**
Fresh, dried and canne	ed fruit	, etc.			
Bananas	• • •			80,519	,,
Green fruit				15,527	
Dried fruit				5,719	,,
Vegetables—raw		•••	•••	1,260	,,
canned	•••	•••	•••	1,863	"
Vegetables in brine	•••	•••	•••	1,207	"
Canned fruit		•••	•••	8,206	
		•••		0,200	,,
Other foods:				0	
Butter, cheese and l	ard	• • •	•••	25,764	**
Grain	• • •	•••	•••	946,901	**
Cereal products for h	uman o imals	consump	tion	24,498	1)

Imported animals dead or slaughtered:—

Animala landad da d					4
Animals landed dead	• • •	• • •	• • •	• • •	4
Slaughtered in lairs					nil
braughtered III fairs			• • •	• • •	1111

Unsound food destroyed or otherwise dealt with so as not to be used for human food.

			Tr.	- 4		11-0
Fresh or frozen meat, et	c.		Tons.	cwts.	qrs.	lbs.
Beef	•••	• • •	_	13	_	10
Mutton and lamb	•••		4	19	2	$18\frac{1}{2}$
Pork			—	2		23
Canned goods.	Tins.					
Apples	7		_	_	1	$10\frac{1}{2}$
Apricots	425			6	$\bar{2}$	$\overline{20}^{2}$
To t	64			$\overset{\circ}{2}$	$\bar{3}$	19
D		• • •		~		$\frac{13}{24}$
	4	•••				11
Blackcurrant pulp	1	•••		_	$\frac{}{2}$	9
Cherries	26	• • •	_	—	1	
Corned beef	6	• • •	_		1	3
Cream	8	•••		_		2
Fruit salad	15	• • •	_	_	1	1
Grape fruit	83		_		$\frac{2}{2}$	27
Ham	35		_	4	1	10
Ham Roll	16		_	_	2	6
Jellied veal	355			19	—	2
Lambs liver	5				1	22
Milk (condensed)	44		_	_	_	22
Milk (evaporated)	$\frac{11}{25}$		_	_		20
1 5	3					18
T.	639	•••		14	1	11
D 1		• • •		6	i	$22\frac{1}{2}$
Peaches	385	•••	_	U	1	$\frac{2-2}{4}$
Pilchards	4	•••		_		26
Pineapple	167	• • •		2	_	
Pork and Beans	6	• • •	—	_	_	6
Salmon	24	• • •	—	_	_	24
Tomatoes	29			_	2	2
Tomato Puree	34		—	—	3	$4\frac{1}{2}$
Tongues	55		—	2	1	13
Fruit and vegetables.	Cases.					
	1		_	4		
Apricot pulp	30	• • •		7	$\frac{}{2}$	
Cabbage		•••			$\frac{2}{3}$	
Fruit salad (dried)	3	•••			3	
Grape fruit	120	•••	6	_		$\frac{-}{22}$
Lettuce	23	• • •			3	22
Melons	16	• • •		16	_	
Oranges	6,499	• • •	324_{-}	11	2	
Potatoes	140		7	_	_	
Prunes	1		_	_	_	25
Raisins	399		4	9	2	16
Other goods.						
Barley			76	14	2	16
	•••	•••	_	l	ĩ	14
Cheese	•••	• • •		6	1	1.4
Coconut (desiccated)	•••	•••				
Cocoa Beans	•••	• • •		9	$\frac{2}{3}$	20
Maize	•••		13	16	3	20
Oats	•••	•••	1	18	3	10
Wheat		• • •	75	8	3	10
	TOTAL		521	5	2	20

Public Health (Imported Milk) Regulations, 1926.

No milk (other than condensed, evaporated or dried) was imported during the year.

Public Health (Preservatives, etc., in Food) Regulations, 1925 to 1927.

Periodical sampling of various foods has been carried out under the provisions of the above regulations. There have been four infringements. These were dealt with in the manner laid down by the regulations.

Copper in Tomatoes.

Attention has been given during the year to the question of the amount of copper to be tolerated in imported canned tomatoes and importers were informed of the standard to be expected.

There is some divergence of opinion between certain foreign exporters and expert opinion in this country as to the amount of copper which can be said to be unavoidable in tinned tomatoes. In addition, certain importers have informed the department that in their opinion other tinned vegetables, e.g., tinned celery and asparagus invariably contain copper in similar amounts.

Numbers of samples have been taken during the latter half of the year of these goods, but with no definite confirmation of this statement.

It is however clear that with proper methods of preparation the copper content can be kept down to a very low figure and the department is proceeding on these lines.

Some examples are given of the variety of circumstances found in the work of food inspection at the port. These instances are as follows:—

(1). S/s. "Northumberland." This vessel arrived at Avonmouth with a consignment of frozen mutton and lamb from New Zealand. In the No. 4 tweendeck a consignment of barrels containing pickled pelts was stowed. Owing to rough weather on the passage some of these barrels burst and the pickling solution leaked into the refrigerated hold containing frozen meat. As arsenic is often used in the pickling of pelts, all contaminated carcases were detained, and samples of the pickling solution were sent to the Bristol University for examination. The analysis showed that the pickle was free from arsenic, and was of pure salt. The damaged carcases were found to be contaminated in much the same manner as by brine stain. Affected parts of the carcases amounting to 2,504 lbs. of lamb and mutton were condemned in the usual manner.

- (2). S/s. "Ruahine." This vessel brought, among other consignments, 250 cases of canned jellied veal from New Zealand. The point of interest in this instance is that 343 6 lb. tins were found to be blown and burst. The whole consignment was detained and every tin was examined. It is difficult to state with exactness the cause of these tins bursting in such a manner, but it is reasonable to think that inferior canning coupled with stowage in a warm part of the ship were the contributory factors.
- (3). S/s. "Steel Maker." This vessel brought a consignment of general cargo from Pacific Coast ports, via London and Liverpool. At London it was discovered that a fractured soil pipe had been leaking into No. 2 hold. Notification of this was sent from London to Bristol. A strict watch was continually kept on all the cargo that was discharged from this hold at Avonmouth. 1,722 bags of barley were condemned, also 656, 28lb. cases of raisins were destroyed.

I have to thank Port Inspector Howick, Avonmouth, for these details and for the supervision of the arrangements in connection with the work entailed.

The number of samples found to contain preservative in excess of the regulations in previous years is according to the following table:—

1933	1934	1935	1936	1937	1938
6		10	5	_	4

(2) Public Health (Cleansing of Shellfish) Act 1932.

Public Health (Shellfish) Regulations 1934.

There are no shellfish beds or layings within the jurisdiction of the Bristol Port Health Authority. The supply of shell fish marketed in Bristol is obtained mainly from the following sources:

Cockles from St. Clair, South Wales, and King's Lynn, Norfolk.

Escallops ,, Brixham, South Devon.

Mussells ,, Appledore, North Devon; and St. Clair, South Wales.

Oysters ,, Whitstable, Pyefleet, and Colemouth, via London, Portugese and American via Liverpool.

Winkles ,, Appledore, North Devon.

Whelks ,, King's Lynn, Norfolk.

(3) Samples of food examined by bacteriologist and analyst.

Article.	Examined for	Result.
Asparagus tips, canned Cherries, canned	Metals	Copper 4 parts per million. Tin 1.06 grains per lb.
Cider	do.	Copper 0.012 grains per lb. Lead—2 parts per million.
Cider	do.	Copper—5 parts per million. Lead—5 parts per million.
Carrots, canned	do.	Copper—1.5 parts per million. Tin 0.3 grains per lb. Copper—1.0 parts per million.
Celery, canned	do.	Tin—1.0 grains per lb. Copper—1.0 parts per million.
Corned beef, canned	do.	Metals nil.
Corned beef, canned	do.	Metals nil.
Flour	Contamination	No evidence of contamination by sea water.
Flour	do.	do. do.
Grapes	Presence of Arsenic.	Arsenic not present.
Lettuce	Presence of en-	
	teric and dy- sentery bacilli	Not present.
Lactose	Soundness	Genuine.
Malted Milk powder	Soundness	Genuine
Oranges, canned	Metals	Metals nil.
Raspberry pulp	Contamination	No contamination indicated.
Raspberry pulp Syrup	do. Soundness	do. Suitable for ingredient for cattle
	Soundness	food.
Sardine oil	Soundness	Genuine.
Sardines	Metals	Lead—4 parts per million.
do do.	do. do.	Lead—1.7 parts per million. Lead—0.9 parts per million.
do.	do.	Lead—2.4 parts per million.
do.	do.	Lead—1·3 parts per million.
do.	do.	Lead—4·2 parts per million.
do. Salt codfish	do. Soundness	Lead—5 parts per million. Unfit for food.
Spinach, canned	Metals	Lead—1 part per million.
1		Copper—2.5 parts per million.
Tomatora	Matals	Tin nil.
Tomatoes, canned	Metals	Tin—6.5 parts per million. Copper—1.95 parts per million.
do	do.	Tin—31.5 parts per million.
		Copper—2:3 parts per million
do	do.	'Blown'tin. Tin—54 parts per million.
1.	1-	Copper—1.05 parts per million.
do	do.	Tin—0·29 grains per lb. Copper—4·8 parts per million.
do	do.	Tin—0:31 parts per million.
do	do.	Copper—1.4 parts per million. Tin—32 parts per million.
		Copper—2 parts per million of
do	do	dried total solids.
10,	do.	Tin—0.8 grains per lb. Copper—45.7 parts per million
		of dried total solids.
do,	do.	Tin—0.3 grains per lb.
		Copper—117 parts per million of dried total solids.
do	do.	Tin—0.2 grains per lb.
		Copper—60 parts per million of
		dried total solids.

(3) Samples of food examined by bacteriologist and analyst (contd.)

Article.	Examined for	Result.
Tomatoes, canned	do.	Tin—0·13 grains per lb. Copper—31 parts per million of dried total solids.
do	do.	Tin—0.26 grains per lb. Copper—19 parts per million of
do	do.	dried total solids. Tin—0.24 grains per lb. Copper—50 parts per million of dried total solids.
do	do.	Lead—0.2 parts per million. Copper—37.1 parts per million of dried total solids.
do	do.	Copper—26.5 parts per million of dried total solids.
do	do.	Copper—34.6 parts per million of dried total solids.
Tomato puree	do.	Tin—0.66 grains per lb. Copper—3.7 parts per million.
do	do.	Tin—0.84 grains per limiton. Copper—107 parts per million of dried total solids.
do	do.	Copper—28 parts per million of dried total solids.
do	do.	Copper—97.5 parts per million of dried total solids.

Sampling for preservatives.

The following samples were submitted to the public analyst during the year and examined by him for the presence of preservatives:

Apricots, dried	2	Milk, skimmed, powo	ler	2
Apples, evaporated	1	Muscatels		2
Asparagus tips, canned	1	Oranges, canned		2
Beef powder	2	Pulp, black currant		3
Beef stock	1	Pulp, apricot		2
Corned beef	2	Pulp, raspberry		4
Cherries, canned	1	Pulp, strawberry		5
Cherries, in brine	l	Prawns		1
Carrots, canned	2	Prunes, dried		1
Candy	1	Raisins		-2
Currants	1	Raspberries in SO ₂		2
Cider	2	Strawberries in SO ₂	•••	2
Celery, canned	1	Sultanas		12
Corn flakes	1	Spaghetti, canned		1
Figs	2	Spinach, canned		2
Herring roe, canned	1	Shrimps, canned		l
Lunch tongue, canned	1	Tomato puree		5
Meat gelatine, canned	1	Tomato, canned		18
Milk, chocolate malted		Walnuts, shelled		l
powder	1			—
Milk, malted, powder	2	Total		99
Milk, machine skimmed,				
condensed	3			
Milk, evaporated, full				
cream unsweetened	1			

MISCELLANY.

Parrots (Prohibition of Import) Regulations, 1930.

No vessels arrived in 1938 with parrots or budgerigars on board.

Canal Boat Inspection.

No canal boats were in use in the Bristol district during 1938.

Medical inspection of aliens.

During the year 166 aliens landed at Bristol, mostly as first class passengers, in transit or visitors, from the West Indies, and medically presented no difficulties. Those referred for examination are examined on board while the ship is in the locks. Altogether, 124 were inspected by the medical inspector including 15 who were subjected to detailed examination.

Medical Inspection of Aliens.

Annual return by the medical inspector of aliens for year ended 31st December, 1938.

			J								
						Certi	Certificates Issued		-	Transmigrants	
	Total	Number inspected by the medical inspector	Number subjected to detailed examination by the medical inspector	Lunatic idiot or M.D.	Undesirable for medical reasons	Physically incapacitated	Suffering from acute infectious disease	Landing necessary for adequate medical examination	y Verminous	Trachoma favus, etc.	oma etc.
1. (a) Total number of Aliens (excluding Alien Seamen) landing at the Port	166	109	r.	(a)	(a)	(c)	(p)	(e)			
(b) Aliens refused permission to land by Immigration Officer	11:		::	: ::	: ::	: ::	: ::	: ::		: ::	
2. Total Aliens arriving at the Port	177	109	15	:	:	:	:	:	:		
3. (a) Total number of vessels carrying alien passengers (b) Number of such vessels dealt with by the Medical Inspector	ng alien th by t	passengers he Medical Inspector	59								
. TABLE A.						TABLE B.					
Analysis of Allens landing (see 1 (a)).		Total		n of Alien	is referred to	the Medical I	Classification of Aliens referred to the Medical Inspector by the Immigration Officer		Examined	No. of Certificates issued.	cates
In Transit	:::		for d	for detailed examination bolding Ministry of La	or detailed examination— bolding Ministry of Labour permits	. permits	:	:	ಣ		
Business Diplomatic	::	::		nding to r	intending to remain in the country over 3 months	ountry over 3	months	:	61	: :	
Seamen Contract Seamen	::	:::		nding to	intending to make their home in this country	ome in this c	ountry	:	-	:	
	Ţ		(iv) stud	dents com egard to w	students coming for educational purposes in regard to whom there is any mention of	tional purpose any mention o	students coming for educational purposes	for their visit	9 ;	: :	
(a) Males (b) Females	::	: : :		appear t	the I.O. (a)	not to be ir	who appear to the I.O. (a) not to be in robust health; (b) to be mentally	to be mentally			
3	 M.L. pe			or physi	or physically abnormal or sub-norm (d) are selected for special reasons	il or sub-norm pecial reasons	or physically abnormal or sub-normal; (r) to be dirty in their person or (d) are selected for special reasons	their person or	-		
(a) Males (b) Females (c) Children	:::	61 to :	(vii) sear	nien trave	seamen travelling as passengers	ngers	:	::	ده	: :	
Total	ਫ਼	166					Total	:	15		

